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Standard Guide for Chemical Analysis of White Pigments¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This guide covers procedures for the chemical analysis of white pigments.

2. Referenced Documents

- 2.1 ASTM Standards:
- C 471M Test Methods for Chemical Analysis of Gypsum and Gypsum Products [Metric]²
- D 715 Test Methods for Analysis of Barium Sulfate Pig $ment^3$
- D 717 Test Methods for Analysis of Magnesium Silicate Pigment³
- D 718 Test Methods for Analysis of Aluminum Silicate Pigment³
- D 719 Test Methods for Analysis of Diatomaceous Silica Pigment³
- D 1199 Specification for Calcium Carbonate Pigments³
- D 1301 Test Methods for Chemical Analysis of White Lead Pigments³

D 3280 Test Methods for Analysis of White Zinc Pigments³

3. Significance and Use

3.1 This compilation of available ASTM methods for the analysis of white pigment serves as a guide to chemists.

4. Test Methods

- 4.1 Tests shall be conducted in accordance with the following ASTM methods. Test procedures not covered by ASTM methods shall be agreed upon by the purchaser and seller.
 - 4.2 Lead Pigments—Test Methods D 1301.
 - 4.3 Zinc Pigments—Test Methods D 3280.
 - 4.4 Titanium Dioxide Pigments—Test Methods D 1394.
- 4.5 Calcium Carbonate Pigments: Whiting, Paris White, Spanish White, Chalk—Specification D 1199.
- 4.6 Calcium Sulfate Pigments: Gypsum, Terra Alba, Plaster of Paris—Test Methods C 471M.
- 4.7 Barium Pigments: Barytes or Barite and Blanc Fixe— Test Methods D 715.
 - 4.8 Silica Pigments—Test Methods D 719.
 - 4.9 China Clay—Test Method D 718.
 - 4.10 Magnesium Silicate—Test Methods D 717.

5. Keywords

5.1 chemical analysis; white pigment

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² Annual Book of ASTM Standards, Vol 04.01.

³ Annual Book of ASTM Standards, Vol 06.03.

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D 1394 Test Methods for Chemical Analysis of White Titanium Pigments³